receive the other End of the Knife *d*; and the ſolid ſquare Part thereof, *i k l m*, is to be faſten'd in the Groove that is under it, by two Iron-plates α α, ε ε, under which it muſt run in the ſaid Groove, ſo as that it may be ſlipp'd out from under it, and laid by, when the Engine is not uſed; at which Time alſo the Piece at the other End may be unſcrew'd and laid up.

The two long Squares upon one End of the Block, in Fig. 1. *viz.* 5. 6. 7. 8. are two Iron-plates to be faſten'd, where the Knife, moving in a fit Cavity, is to cut the bruiſed Stuff between them. And of theſe Plates that, which lies next the End, is to be laid a little lower, the Block being there pared accordingly, that ſo the Stuff may fall off from the End of the Engine the quicker, as your left Hand furniſhes the Knife with the bruiſed Materials, whilſt the right Hand is cutting them.

Let the hollow Place, where the Knife cuts, be, as near as may be, ſo big only, that the Knife may eaſily fall and riſe; and let the Block be hollow'd under the cutting Hole, and ſloped off at that End, for the Stuff to fall off as the Knife cuts it.

An Extract of a Letter of Mr. Martin Liſter *concerning the firſt Part of his* Tables *of* Snails, *together with ſome* Quære's *relating to thoſe Inſects, and the Tables themſelves; ſent to the Publiſher from* York, *March* 12. 1673.

I Herewith ſend you the *firſt* Part of our *Tables* of *Snails*, and ſome *Quære's* upon that Subject; alſo the lively Figure of each Shell for Illuſtration, done by Mr. *Lodge*. I reſerve by me the *Sea-ſhells* and *Rock-ſtones*. That Part, I ſend you at preſent, being at a Stand with me, thoſe other increaſe upon my Hands daily; which though *that* be not a Sign of Perfection (for there is undoubted Work for many Ages,) yet is of good Advancement and Progreſs; *this* other of the Copiouſneſs of the Subject. Again, in that Part of the Tables, you have from me, Authors are very little concern'd; in the other of *Sea-ſhells* and *Stone-like Shells* there are many Authors, which are to be conſulted and taken in, if poſſible we can underſtand them treating of the ſame Species. As for *Rock-ſhells* in particular, they come in to me in greater Numbers, than I could ever have imagined. And I can aſ-

ſure

ſure you, that of near 30 *Species*, I have now by me, found in this County alone, not any one can be ſampled by any *Sea*, *Freſh-Water* or *Land*-Snail, that I have, or ever ſaw. So that you ſee, I have ſtill good Reaſon to doubt of their Original, beſides many other Arguments that my Obſervations about *Foſſils* do afford, and which you may poſſibly one Day ſee. And that there are the elegant Repreſentations of even *Bivalve-ſhells*, which never owed their Original to any Animal, I can demonſtrate; and think none, that hath conſidered the Thing with me, yet hath denyed: Of which hereafter. But whether all be ſo or no, I chooſe this Method, as the moſt convincing, *viz.* to give a comparative View.

Some general Quære's concerning Land and Freſh-Water Snails.

1. Whether there are other Shell-Snails at Land, than Turbinate?

2. Whether this Kind of Inſect are truly *Androgyna*, and equally Participate of both Sexes, as Mr. *Ray* firſt Obſerved; and whether both of them two which ſhall be found in the Act of Venery, do accordingly *ſpawn*, or lay thoſe perfectly round and clear Eggs, ſo frequently to be met with in the ſurface of the Earth and in the Water too; and the Circumſtances of thoſe Eggs Hatching?

3. Whether the Way of fatting Snails, in uſe amongſt the *Romans*, that is, to make little paved Places incircled with Water, be not alſo very expedient in Order to the true noting the Manner of their Generation?

4. What light the *Anatomy* of this Kind of Inſect may give to the reſt?

5. Whether the black Spots, obſervable in the Horns of ſome Snails, are Eyes, as ſome Authors affirm, and not rather Parts equivalent to the *Antennæ* of other Inſects; as the flat and exceeding thin Shape, alſo the branched Horns, in other Species of Snails ſeem to confirm?

6. Whether the *coccinea Sanies*, which ſome of our Water-Snails freely and plentifully yield, be not a *Saliva* rather than

an *extravaſated Blood*: The like may be Thought of the Juice of the *Purple-fiſh*, now out of uſe, ſince the great Plenty of *Cochineil*?

7. In what ſort of Snails are the *Stones*, mentioned by the Ancients, to be found? And whether they are not to be found (in ſuch as yield them) at certain Times of the Year? And whether they are a Cure for a Quartan; or what other real Vertue they have?

8. What medicinal Vertues Snails may have, as reſtorative to Hectic Perſons; and what credit the *Romans* may deſerve, counting them, eſpecially the Necks of them, highly Venereal; *Celſus* alſo particularly commending them to be *boni ſucci*, and *ſtomacho aptas*.

9. Alſo inquire concerning the Machanical Uſes of the *Saliva* of theſe Animals, as in dying, whitening of Wax, Hair, *&c.*

Note, that the Figures are numbered and explained by the *Tables*. The Figures of the *naked Snails* are omitted in this Specimen, being not material to that Part of the Deſign, which is, (when the other Parts of the Table are finiſh'd,) to give the Reader an exact View of *Animal-ſhells*, as well as of *Foſſils* figured like Shells, whereby he will be beſt able to Judge, what to think of their Original.

Tabulæ

Tabulæ Cochlearum Angliæ, tum Terreſtrium Fluviatiliumque, tùm Marinarum, quibus accedunt Lapides ad Cochlearum ſimilitudinem figurati. *Vid. Tab.* II.

- *Cochleæ*
  - Terreſtres
    - *teſtis intectæ*
      - *Turbinatæ*
        - *breviore figurâ, Numero* V.
          1. *Cochlea cinerea maxima edulis, cujus Os operculo gypſeo per hyemem tegitur, agri Hartfordienſis.*
          2. *Cochlea cinereo levitèr rufeſcens, ſtriata, operculo teſtaceo cochleato donata.*
          3. *Cochlea & colore & faſciis multa varietate ludens.*
          4. *Cochlea ſubflava, maculata, atque unica faſcia caſtanei coloris per medium anfractus inſignita.*
          5. *Cochlea vulgaris major, hortenſis, maculata & faſciata.*
        - *longiore figura*
          - *ad ſiniſtram convolutæ. N.* IV.
            6. *Buccinum exiguum ſubflavum, mucrone obtuſo, ſive figura cylindrica.*
            7. *Buccinum alterum exiguum in Muſco degens,* 5 anfractuum, *mucrone acuto.*
            8. *Buccinum rupium majuſculum,* ſenis orbibus *protractum.*
            9. *Buccinum parvum ſive Trochilus ſylvaticus agri Lincolnienſis.*
          - *ad dextram, N.* II.
            10. *Buccinum pullum, ore compreſſo, circiter denis ſpiris faſtigiatum.*
            11. *Buccinum alterum pellucidum, ſubflavum, intra ſenos fere orbes mucronatum.*
        - *compreſſæ, N.* II.
          12. *Cochlea cinerea, faſciata, Ericetorum.*
          13. *Cochlea altera, pulla, ſylvatica, ſpiris in aciem depreſſis.*
    - *nudæ,* limaces *dictæ quibuſdam, N.* III.
      14. *Limax cinereus maximus, ſtriatus & maculatus, lapillo ſive officulo inſigni, loco Cranii, donatus, locis udis & umbroſis degens.*
      15. *Limax cinereus alter, parvus, unicolor, pratenſis.*
      16. *Limax ater.*
  - Fluviatil.
    - *Turbin.*
      - *Cochleæ, N.* I.
        17. *Cochlea faſciata,* ore *ad amuſſim rotundo.*
      - *Buccina, N.* V.
        18. *Buccinum flavum, pellucidum, intra tres ſpiras terminatum.*
        19. *Buccinum alterum majus, paulo obſcurius, pellucidum tamen,* 4 *Spirarum, mucrone acutiſſimo.*
        20. *Buccinum fuſcum,* 5 *Spirarum plenarum, mucrone ſæpius mutilato, obtuſoque.*
        21. *Buccinum ſubflavum alterum,* 5 *Spirarum, atque operculo tenui & pellucido, teſtacco tamen cochleatoque donatum.*
        22. *Buccinum longum ſex ſpirarum, in tenue acumen ex ampliſſima baſi mucronatum.*
      - *Compreſſa teſta, Coccum fundentes, N.* III.
        23. *Cochlea pulla, ex utraque parte circa umbilicum cava.*
        24. *Cochlea altera parte plena, & limbo donata,* 4 *circumvolutionum.*
        25. *Cochlea minor, altera parte plana, ſine limbo,* 5 *circumvolutionum.*
    - *Bivalvæ N.* II.
      26. *Muſculus, parvus, ſubflavus, teſta pellucida, piſi magnitudine, paluſtris.*
      27. *Muſculus alter, fluminum maximus, ſubviridis.*
- Marinæ, &c.

A Rela-

Tab. 2. N°. 105.